

Server-grade IPCs

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Server-grade IPCs

Server Chassis

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Model Name		HPC-7280		HPC-7480	
Processor Support		Supports dual, single Intel / AMD processors		Supports dual, single Intel / AMD processors	
Form Factor Support		2U chassis support for max. motherboard size - 12" x 13" EATX		4U chassis support for max. motherboard size - 12" x 13" EATX	
Expansion Slots		3 x Full-height, Full-length (with riser card) or 6 x low profile PCI expansion slots		7 x Full-height, Full-length PCI expansion slots	
Drive Bay	Slim ODD Bay	1		-	
	5.25" (front-accessible)	-		3	
	3.5" (front-accessible)	8		8	
	3.5" (internal)	-		-	
	2.5" (front-accessible)	-		-	
	2.5" (internal)	-		-	
Cooling	Chassis Fan	3 (8 cm / CFM)		4 (8 cm / CFM)	
	Air Filter	-		Yes	
System Monitoring		Chassis intrusion switch		Chassis intrusion switch	
Front I/O Interface	USB	1		2	
	PS/2	-		-	
Miscellaneous	LED Indicators	Power, HDD activity, LAN		Power, HDD activity, LAN	
	Rear Panel	-		-	
Environment	Temperature	Operating	Non-Operating	Operating	Non-Operating
		0 ~ 40° C (32 ~ 104° F)	-40 ~ 70° C (-40 ~ 158° F)	0 ~ 40° C (32 ~ 104° F)	-40 ~ 70° C (-40 ~ 158° F)
	Humidity	10 ~ 85% @ 40° C non-condensing	10 ~ 95% @ 40° C non-condensing	10 ~ 85% @ 40° C non-condensing	10 ~ 95% @ 40° C non-condensing
	Vibration (5~500 Hz)	1 Grms	2 G	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	30 G	10 G (with 11 ms duration, half sine wave)	30 G
Physical Characteristics	Dimensions (W x H x D)	482.6 x 88 x 700 mm (2U)		452 x 178 x 648 mm (4U)	
	Weight	28 kg		29.94 kg	
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Server Boards

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Model Name		ASMB-310IR	ASMB-781
Form Factor		CEB	ATX
Processor System	CPU	Intel Xeon E5600/E5500 Series	Intel Xeon E3/ Core i3 Series
	Socket	2 x socket 1366	1 x socket 1155
	Max. Speed	2.53 GHz	3.4 GHz
	Front Side Bus	QPI 6.4 GT/s	-
	L2 Cache	12 MB	6 MB/3 MB
	Chipset	Intel 5520, Intel ICH10R	Intel C206
	BIOS	AMI 32 Mbit, SPI	AMI 64 Mbit, SPI
Expansion Slot	PCI	-	3
	PCIe x16	2	2
	PCIe x8	2	-
	PCIe x4	1 (2 on ASMB-310 SKU)	1
	PCIe	-	1
Memory	Technology	DDR3 Reg/unb. ECC 800/1066/1333 MHz	DDR3 ECC/non-ECC Unbuffer 800/1066/1333 MHz
	Max. Capacity	48 GB (RDIMM) 24 GB (UDIMM)	32 GB ECC/Non-ECC UDIMM
	Socket	6 x 240-pin DIMM	4 x 240-pin DIMM
Graphics	Controller	AST 2050	AST2300
	VRAM	DDR2 64 MB	DDR3 128 MB
	LCD	-	-
	TV-Out	-	-
	HDMI	-	-
	DVI	-	-
	Dual Display	-	-
Ethernet	Interface	10/100/1000 Mbps Gigabit Ethernet	10/100/1000 Mbps Gigabit Ethernet
	Controller	1 x Intel 82574L, 1 x Intel 82567LM 1 x Mgmt LAN (optional)	1 x Intel 82579LM + 1 x Intel 82574L Intel 82580DB (optional)
	Connector	RJ-45 x 3 (1 x Mgmt LAN) optional	RJ-45 x 4 (ASMB-781G4 SKU) optional
TPM			
SATA	Max. Data Transfer Rate	300 MB/s	300MB/s for SATA2 600 MB/s for SATA3
	Channel	6	4 for SATA2, 2 for SATA3
Rear I/O	VGA/DVI/HDMI	1 / - / -	1 / - / -
	Ethernet	3 (1 for optional)	4 (2 for optional)
	USB	6	4
	Audio	-	-
	Parallel	-	-
	Serial	1 (RS-232)	1 (RS-232)
	PS/2	2	2
Internal Connector	LVDS & Inverter	-	-
	TV-Out	-	-
	DVI	-	-
	USB	5	6 (2 x Type-A)
	Serial	1	1
	Parallel	-	-
	IDE	-	-
	SATA	6	6
	SAS	8 (ASMB-310IR only)	-
	Compact Flash	-	-
	GPIO	-	-
Watchdog Timer	Output	-	System reset
	Interval	-	Programmable, 1 ~ 255 sec/min
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HPC-7280

2U Rackmount Chassis for EATX Serverboard with 8 Hot Swap Hard Drive Cages

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Features

- 2U rackmount chassis supports ATX/CEB/EATX motherboard
- Lockable front bezel prevents unauthorized access
- 800 W (1+1) redundant power supply
- Optional riser card supports 2 x PCI-X and 1 x PCIe x8

Specifications

Processor Support		Supports dual, single Intel / AMD processors	
Form Factor Support		2U chassis support for max. motherboard size - 12" x 13" EATX	
Expansion Slots		3 x Full-height, Full-length (with riser card) or 6 x low profile PCI expansion slots	
Drive Bay	Slim ODD Bay	1	
	5.25" (front-accessible)	-	
	3.5" (front-accessible)	8	
	3.5" (internal)	-	
	2.5" (front-accessible)	-	
	2.5" (internal)	-	
Cooling	Chassis Fan	3 (8 cm / CFM)	
	Air Filter	-	
System Monitoring		Chassis intrusion switch	
Front I/O Interface	USB	1	
	PS/2	-	
Miscellaneous	LED Indicators	Power, HDD activity, LAN	
	Rear Panel	-	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40° C (32 ~ 104° F)	-40 ~ 70° C (-40 ~ 158° F)
	Humidity	10 ~ 85% @ 40° C non-condensing	10 ~ 95% @ 40° C non-condensing
	Vibration (5~500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	30 G
Physical Characteristics	Dimensions (W x H x D)	482.6 x 88 x 700 mm (2U)	
	Weight	28 kg	

Ordering Information

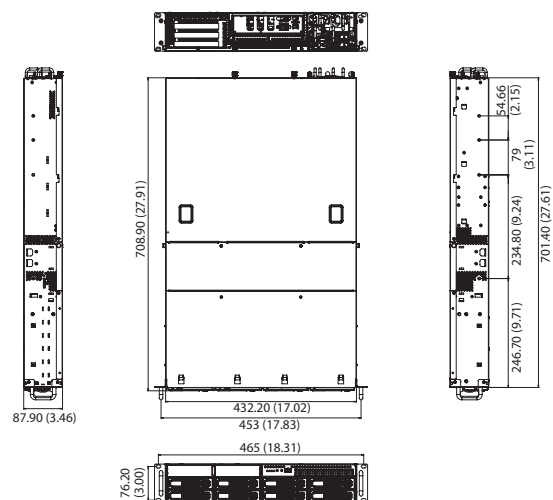
Part Number	Power Supply
HPC-7280-R8A1E	1+1 800 W Redundant Power Supply

Packing List

Description	Quantity
800W Redundant Power Supply Module	x 2
Hot-swap 3.5" HDD Trays	x 8
SAS/SATA2 Backplane	x 2
PCI Riser Card (SRC-2LG2XE-00A1E)	x 1
Front I/O Panel Board	x 1
Front Bezel with Key (Lockable)	x 1
Redundant Power Supply Power Distribution Board	x 1
System Fans (80mm x 38mm)	x 3
System Cable Set	x 1
Startup Manual	x 1
Slim 8 x SATA DVD + 1-RW DL	x 1

Dimensions

Unit: mm (inch)



HPC-7480

4U Tower/Rackmount Chassis for EATX Serverboard with 8 Hot Swap Hard Drive Cages

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Specifications

Processor Support		Supports dual, single Intel / AMD processors	
Form Factor Support		4U chassis support for max. motherboard size - 12" x 13" EATX	
Expansion Slots		7 x Full-height, Full-length PCI expansion slots	
Drive Bay	Slim ODD Bay	-	
	5.25" (front-accessible)	3	
	3.5" (front-accessible)	8	
	3.5" (internal)	-	
	2.5" (front-accessible)	-	
	2.5" (internal)	-	
Cooling	Chassis Fan	4 (8 cm / CFM)	
	Air Filter	Yes	
System Monitoring		Chassis intrusion switch	
Front I/O Interface	USB	2	
	PS/2	-	
Miscellaneous	LED Indicators	Power, HDD activity, LAN	
	Rear Panel	-	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40° C (32 ~ 104° F)	-40 ~ 70° C (-40 ~ 158° F)
	Humidity	10 ~ 85% @ 40° C non-condensing	10 ~ 95% @ 40° C non-condensing
	Vibration (5~500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	30 G
Physical Characteristics	Dimensions (W x H x D)	452 x 178 x 648 mm (4U)	
	Weight	29.94 kg	

Features

- 4U rackmount chassis supports ATX/CEB/EATX motherboard
- Lockable front bezel prevents unauthorized access
- 665 W high efficiency single power supply
- Swappable fan module design facilitates maintenance

Ordering Information

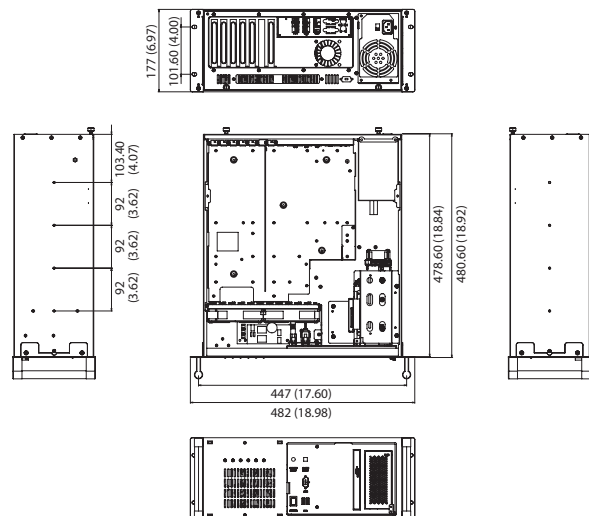
Part Number	Redundant Power Supply
HPC-7480-66A1E	665 W Power Supply

Packing List

Description	Quantity
665 W Single Power Supply	x 1
Hot-swap 3.5" HDD Trays	x 8
SATA2 Backplane (SAS Backplane Optional)	x 1
Front I/O Panel Board	x 1
Front Bezel with Key (Lockable)	x 1
System Hot-swap Cooling Fans	x 4
Startup Manual	x 1

Dimensions

Unit: mm (inch)

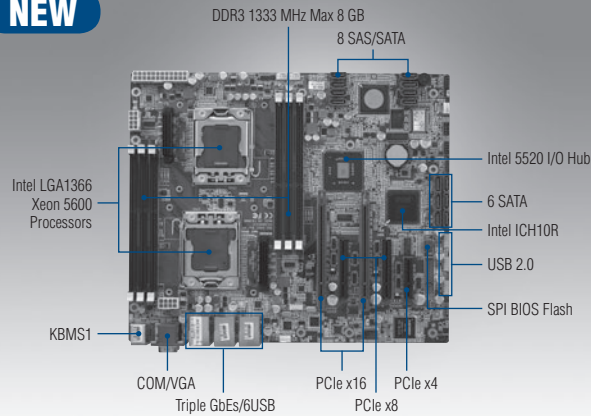


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- Embedded Controllers
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ASMB-310IR

Dual 1366 Socket CEB Server Board with 2 PCIe x16 Expansion Slots

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Features

- Supports dual Intel® processors 5500/5600
- Six ECC registered/unbuffered memory DIMMs, up to 24/48 GB capacity
- Supports 2 x PCIe x16 double-deck expansion cards
- CEB form factor fits into standard chassis
- 24/7 industrial server, ambient operation temp from 0 ~ 50° C

Specifications

Form Factor	Socket	CEB form factor
	Socket	2 x socket 1366
Processor System	CPU type	Intel Xeon 5600 series, Intel Xeon X5500 series (95 W), Intel Xeon E5500 series (80 W), Intel Xeon L5500 series (60 W/38 W)
	Bus	QPI 4.8 / 5.86 / 6.4 GT/s
Core Logic	Chipset	Intel 5520 chipset IOH, Intel ICH10R I/O controller
	Total slots	6 (3-channel per CPU, 3 DIMM per CPU)
Memory	Capacity	Maximum up to 48 GB (RDIMM), maximum up to 24 GB (UDIMM)
	Memory type	DDR3 800/1066/1333 reg DIMM/unbuffered DIMM with ECC
	Memory size	1 GB, 2 GB, 4 GB, 8 GB
Expansion Slots (SSI location #)	Total PCI/PCI-X/PCIe slots	6
	Slot location 1	1 x PCIe x4 (Gen1 X4 link) (This slot is not available in ASMB-310IR SKU)
	Slot location 2	1 x PCIe x4 (Gen2 X4 link)
	Slot location 3	1 x PCIe x8 (Gen2 X8 link)
	Slot location 4	1 x PCIe x16 (Gen2 X16 link) (Auto switch to x8 link if slot 3 is occupied)
	Slot location 5	1 x PCIe x8 (Gen2 X8 link)
	Slot location 6	1 x PCIe x16 (Gen2 x16 link) (Auto switch to x8 link if slot 5 is occupied)
	Slot location 7	-
Graphics	VGA	Aspeed AST2050 64 MB
	IDE controller	-
Storage	SATA controller	Intel ICH10R: 6 SATA2 300 MB/s ports, Intel Matrix Storage (for Windows only) (Supports software RAID 0, 1, 10 & 5)
	SAS controller	LSI 1068E (ASMB0-310IR SKU only)
Networking	GbE LAN	1 x Intel 82574L + 1 x Intel 82567LM + dedicated LAN port for remote management function (management LAN is available in ASMB-310IR SKU only)
Onboard I/O Connectors	Floppy connector	-
	PSU connector	24-pin SSI power connector + 8-pin SSI 12 V + 8-pin SSI 12 V power connector
	USB connector	3 (supports 5 USB port)
	Fan header	5 x 4pin
	SMBus	-
	Chassis intruder	1
	Front LAN LED	2
	Serial port header	1

Rear I/O Connectors	External serial port	1	
	External USB port	6	
	VGA port	1	
	RJ-45	2	
	PS/2 KB/mouse	1	
	Infiniband	-	
Management Solution	Software	-	
	Out of band remote management	Yes (ASMB-310IR SKU only)	
Monitoring	CPU temperature	Yes	
	System Monitoring	Yes	
Environment		Operating	Non-operating
	Temperature	0 ~ 50° C	-40 ~ 85° C
	Humidity	0% ~ 90%	5% ~ 95% (Non condensing)
Physical Characteristics	Dimensions	304.8 x 257.05 mm (12" x 10.12")	

Ordering Information

Part Number	HDD	Expansion Slot	IPMI
ASMB-310-00A1E	6 SATA	4 x PCIe x8 (or 2 x PCIe x16), 2 x PCIe x4	-
ASMB-310IR-00A1E	6 SATA + 8 SAS/SATA	4 x PCIe x8 (or 2 x PCIe x16), 1 x PCIe x4	Yes

Packing List

Part Number	Description	Quantity
1700003194	SATA data cables	x 2
1960048321T000	I/O shield	x 1
2066310R00	Driver CD	x 1
2006310R10	Startup manual	x 1
1960048304N001	CPU Coolers (For 2U/4U system)	x 2

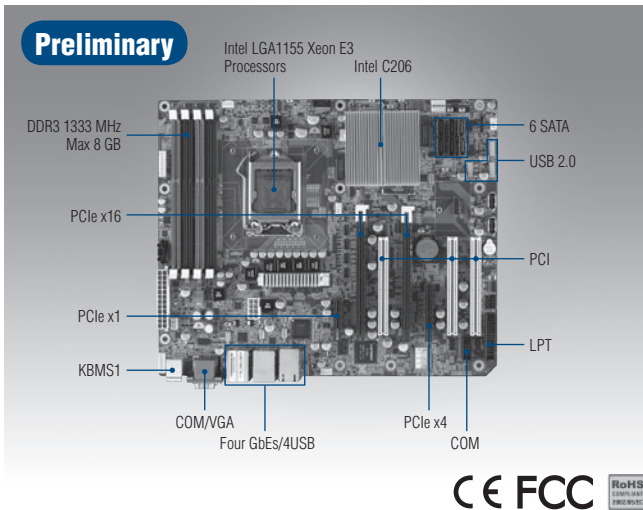
Bracket View



ASMB-310IR

ASMB-781

Single 1155 Socket ATX Server Board with 2 PCIe x16 Expansion Slots



Features

- Supports Embedded Intel® Xeon® E3/ Core™ i3 processor with C206 chipset
- Dual Channel DDR3 ECC/Non-ECC 1066/1333 MHz unbuffered DIMM, Max. 32 GB
- Supports 2 x PCIe x16 (x8 link) double-deck expansion cards
- Supports 2 x SATA 6.0 Gb/s, quad LAN (optional), TPM (optional)

Specifications

Form Factor		ATX form factor
Processor System	Socket	Intel Xeon E3 series
	CPU type	Intel Core i3 processor series
Core Logic	Chipset	Intel C206 chipset
Memory	Total slots	4 (Dual Channel DDR3 1066/1333)
	Capacity	Maximum 32 GB ECC UDIMM
	Memory type	DDR3 ECC/Non-ECC 1066/1333 MHz DIMM
	Memory size	1 GB, 2 GB, 4 GB, 8 GB
Expansion Slots (SSI location #)	Total PCI/PCI-X/PCIe slots	7
	Slot location 1	1 x PCI
	Slot location 2	1 x PCI
	Slot location 3	1 x PCIe x4
	Slot location 4	1 x PCIe x16 (Auto switch to x8 link if slot 6 is occupied)
	Slot location 5	1 x PCI
	Slot location 6	1 x PCIe x16
Graphics	Slot location 7	1 x PCIe x1
	VGA	Aspeed AST2300/1300 128 MB
Storage	IDE controller	-
	SATA controller	Intel C206: 4 SATA2 3 Gb/s ports, 2 SATA3 6Gb/s Intel Matrix Storage (for Windows only) (Supports software RAID 0, 1, 10 & 5)
	SAS controller	-
Networking	GbE LAN	1 x Intel 82579LM + 1 x Intel 82574L, Intel 82580DB (optional)
Onboard I/O Connectors	Floppy connector	-
	PSU connector	24-pin SSI power connector + 8-pin SSI 12 V power connector
	USB connector	3 (supports 6 USB port), 2* Type-A
	Fan header	5 x 4pin
	SMBus	1
	Chassis intruder	1
	Front LAN LED	2
	Serial port header	1
Rear I/O Connectors	External serial port	1
	External USB port	4
	VGA port	1
	RJ-45	2, 4 (ASMB-781G4 SKU)
	PS/2 KB/mouse	1
	Infiniband	-

Management Solution	Software	-	
	Out of band remote management	Yes (ASMB-220G4 SKU only)	
Monitoring	CPU temperature	Yes	
	System Monitoring	Yes	
Environment		Operating	Non-operating
	Temperature	0 ~ 60° C, depends on CPU speed and cooler solution	-40 ~ 85° C
	Humidity	0% ~ 90%	5% ~ 95% (Non condensing)
Physical Characteristics	Dimensions	304.8 x 244 mm (12" x 9.6")	

Ordering Information

Part Number	Chipset	Memory	LAN	IPMI
ASMB-781G2-00A1E	C206	DDR3 ECC/Un-ECC	2	-
ASMB-781G4-00A1E	C206	DDR3 ECC/Un-ECC	4	Yes

Packing List

Part Number	Description	Quantity
2066078100	Driver CD	x 1
2006078110	Startup manual	x 1
1700003194	SATA data cables	x 6
1703150102	SATA power cables	x 2
-	I/O shield	x 1

Bracket View



ASMB-781G4

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